

Model 2215

Bonded Strain Gage Pressure Transducer

Specifications:

Measurand Fluids All fluids compatible with 316 and 347 stainless steel. Pressure media cavity is entirely fusion welded.

Full Scale Output 3.00 \pm 0.015 mV open circuit per volt excitation. Calibrated at 10.00 Vdc excitation.

Zero Balance 0.00 \pm 0.03 mV per volt at +70°F (+21°C).

End Point Linearity Within \pm 0.25% FSO.

Hysteresis Within 0.25% FSO.

Repeatability Within 0.10% FSO.

Resolution Infinite.

Natural Frequency	Range (PSI)	Frequency (kHz)
	0-15	1.0
	0-20	1.2
	0-25	1.3
	0-30	1.4
	0-50	2.0
	0-75	2.5
	0-100	3.0

Proof Pressure Rating Application of 500 PSI will not cause any change in performance characteristics.

Burst Pressure Rating Greater than 1500 PSI.

Compensated Temperature Range -30°F to +170°F (-34°C to +77°C). Options available.

Operating Temperature Range -100°F to +300°F (-73°C to +149°C). Options available.

Thermal Sensitivity Shift Less than \pm 0.005% FSO per °F over compensated temperature range (\pm 0.009% FSO per °C).

Thermal Zero Shift Less than \pm 0.010% FSO per °F over compensated temperature range (\pm 0.018% FSO per °C).

Triaxial Mechanical Shock 30 G's applied for 11 milliseconds will not cause change in performance characteristics.

Acceleration Error Along most sensitive axis:

0-15 PSI range	\pm 0.16% FSO/G
0-20 PSI range	\pm 0.12% FSO/G
0-25 PSI range	\pm 0.09% FSO/G
0-30 PSI range	\pm 0.08% FSO/G
0-50 PSI range	\pm 0.04% FSO/G
0-75 PSI range	\pm 0.03% FSO/G
0-100 PSI range	\pm 0.02% FSO/G

Excitation 10 volts dc or ac rms recommended. 15 volts dc or ac maximum.

Input Resistance 350 \pm 3.5 ohms at +70°F (+21°C). Input circuitry symmetrical.

Output Resistance 350 \pm 5.0 ohms at +70°F (+21°C).

Insulation Resistance Greater than 10k megohms at 50 Vdc between all terminals in parallel and case at +70°F (+21°C).

Pressure Connection 7/16-20 external thread per MS33656-4 is standard. Options available.

Pressure Cavity Volume 0.04 in³ (0.656 ml) including MS33656-4 fitting.

Electrical Receptacle Stainless steel hermetic receptacle to mate with MS3116-10-6S. Standard wiring: Excitation +A, -D; Signal +B, -C; No Connection E, F. Options available.

Enclosure Entirely welded and hermetically sealed stainless steel.

Weight Approximately 5.75 ounces (163 g).

